

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Surge Forward Current Capability
- Glass Passivated Chip Junction
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2.0°C/W Junction to Case

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| GP3016 | GP3016 | 1600V | 1120V | 1600V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---|---|
| Average Forward Current | $I_{F(AV)}$ | 30A | $T_C=85^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 275A | 8.3ms, half sine |
| Instantaneous Forward Voltage | V_F | 1.20V(Max.) 1.12V(Typ.) 1.10V(Max.) | $I_F=30\text{A}; T_J=25^\circ\text{C}$ $I_F=30\text{A}; T_J=25^\circ\text{C}$ $I_F=30\text{A}; T_J=125^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 100 μA | $T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 70pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |

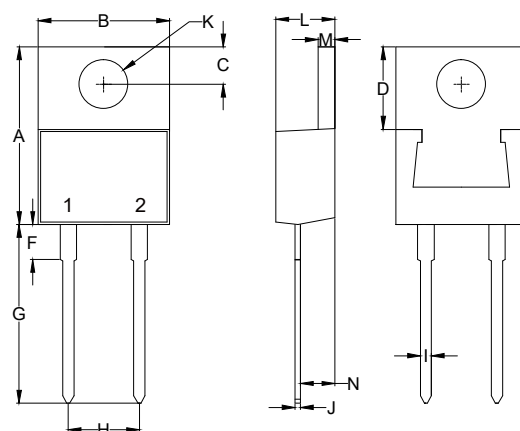
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

Internal Structure



30 Amp General Purpose Rectifier 1600 Volts

TO-220AC



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|--------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.560 | 0.625 | 14.22 | 15.88 | |
| B | 0.380 | 0.420 | 9.65 | 10.67 | |
| C | 0.100 | 0.135 | 2.54 | 3.43 | |
| D | 0.230 | 0.270 | 5.84 | 6.86 | |
| F | ----- | 0.250 | ----- | 6.35 | |
| G | 0.500 | 0.580 | 12.70 | 14.73 | |
| H | 0.190 | 0.210 | 4.83 | 5.33 | |
| I | 0.020 | 0.045 | 0.51 | 1.14 | |
| J | 0.012 | 0.025 | 0.30 | 0.64 | |
| K | 0.139 | 0.161 | 3.53 | 4.09 | Φ |
| L | 0.140 | 0.190 | 3.56 | 4.83 | |
| M | 0.045 | 0.055 | 1.14 | 1.40 | |
| N | 0.080 | 0.115 | 2.03 | 2.92 | |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

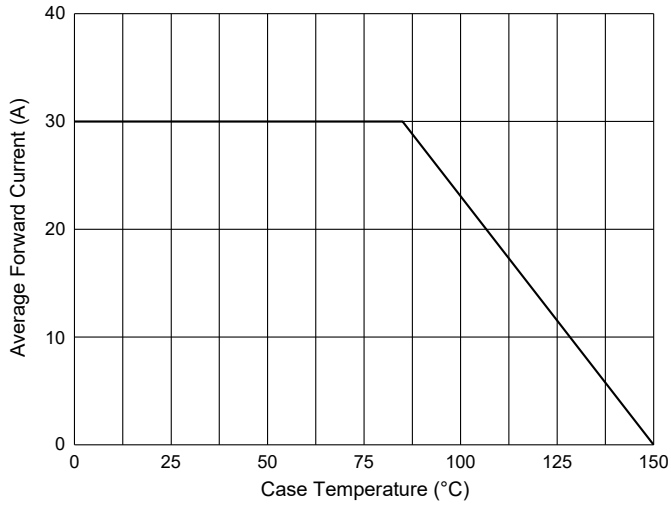


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

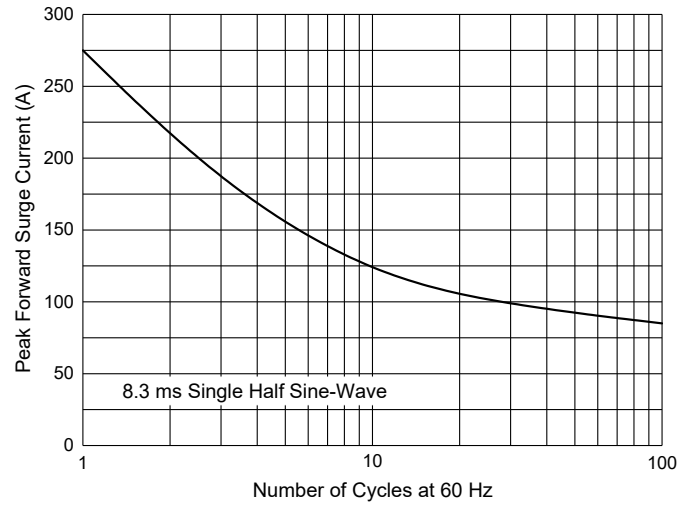


Fig. 3 - Typical Instantaneous Forward Characteristics

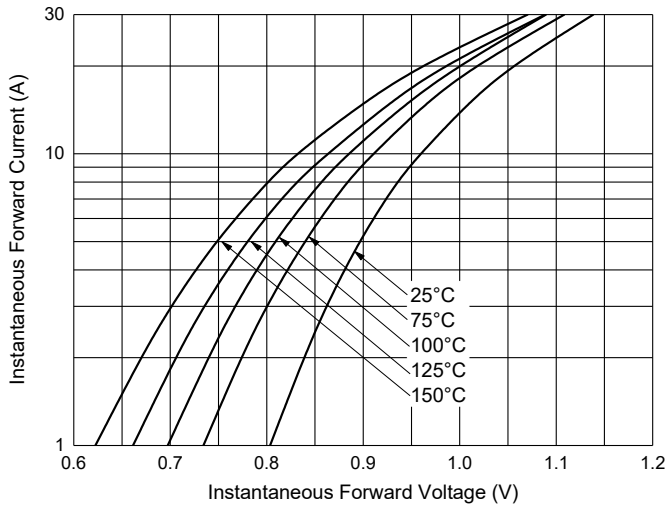
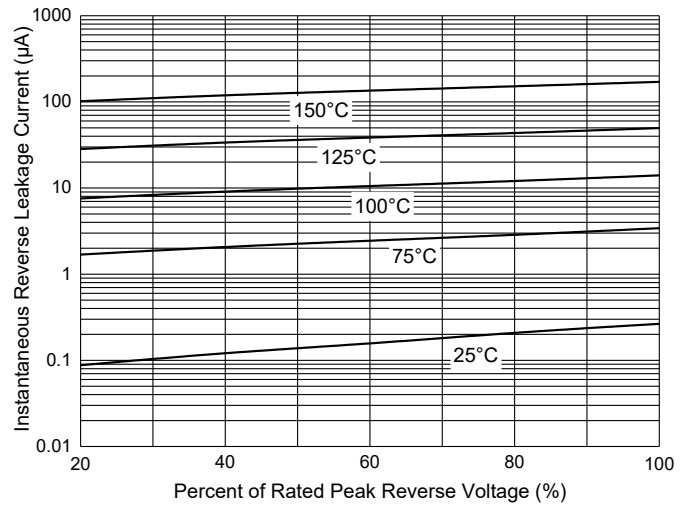


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|------------------------------------|
| Part Number-BP | Tube: 50pcs/Tube, 1K/Box, 5k/Ctn . |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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